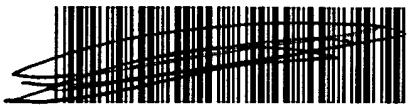


8



OIPE

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002 f6
TIME: 13:26:43

Input Set : A:\10287-044001.txt
Output Set: N:\CRF3\08012002\J037667.raw

4 <110> APPLICANT: Morgan, Bruce A.
6 <120> TITLE OF INVENTION: REGULATION OF NEURAL DEVELOPMENT BY
7 DAEDALOS
9 <130> FILE REFERENCE: 10287-044001
11 <140> CURRENT APPLICATION NUMBER: 10/037,667
C--> 12 <141> CURRENT FILING DATE: 2002-07-23
14 <150> PRIOR APPLICATION NUMBER: 60/243,110
15 <151> PRIOR FILING DATE: 2000-10-25
17 <160> NUMBER OF SEQ ID NOS: 13
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 537
23 <212> TYPE: PRT
24 <213> ORGANISM: Mus musculus
26 <400> SEQUENCE: 1
27 Met Glu Ser Leu Phe Cys Glu Ser Ser Gly Asp Ser Ser Leu Glu Lys
28 1 5 10 15
29 Glu Phe Leu Gly Ala Pro Val Gly Pro Ser Val Ser Thr Pro Asn Ser
30 20 25 30
31 Gln His Ser Ser Pro Ser Arg Ser Leu Ser Ala Asn Ser Ile Lys Val
32 35 40 45
33 Glu Met Tyr Ser Asp Glu Glu Ser Ser Arg Leu Leu Gly Pro Asp Glu
34 50 55 60
35 Arg Leu Leu Asp Lys Asp Asp Ser Val Ile Val Glu Asp Ser Leu Ser
36 65 70 75 80
37 Glu Pro Leu Gly Tyr Cys Asp Gly Ser Gly Pro Glu Pro His Ser Pro
38 85 90 95
39 Gly Gly Ile Arg Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly
40 100 105 110
41 Met Val Cys Ile Gly Pro Asn Val Leu Met Val His Lys Arg Ser His
42 115 120 125
43 Thr Gly Glu Arg Pro Phe His Cys Asn Gln Cys Gly Ala Ser Phe Thr
44 130 135 140
45 Gln Lys Gly Asn Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys
46 145 150 155 160
47 Pro Phe Lys Cys Pro Phe Cys Asn Tyr Ala Cys Arg Arg Arg Asp Ala
48 165 170 175
49 Leu Thr Gly His Leu Arg Thr His Ser Val Ser Ser Pro Thr Val Gly
50 180 185 190
51 Lys Pro Tyr Lys Cys Asn Tyr Cys Gly Arg Ser Tyr Lys Gln Gln Ser
52 195 200 205
53 Thr Leu Glu Glu His Lys Glu Arg Cys His Asn Tyr Leu Gln Ser Leu
54 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002
TIME: 13:26:43

Input Set : A:\10287-044001.txt
Output Set: N:\CRF3\08012002\J037667.raw

55 Ser Thr Asp Ala Gln Ala Leu Thr Gly Gln Pro Gly Asp Glu Ile Arg
 56 225 230 235 240
 57 Asp Leu Glu Met Val Pro Asp Ser Met Leu His Pro Ser Thr Glu Arg
 58 245 250 255
 59 Pro Thr Phe Ile Asp Arg Leu Ala Asn Ser Leu Thr Lys Arg Lys Arg
 60 260 265 270
 61 Ser Thr Pro Gln Lys Phe Val Gly Glu Lys Gln Met Arg Phe Ser Leu
 62 275 280 285
 63 Ser Asp Leu Pro Tyr Asp Val Asn Ala Ser Gly Gly Tyr Glu Lys Asp
 64 290 295 300
 65 Val Glu Leu Val Ala His His Gly Leu Glu Pro Gly Phe Gly Gly Ser
 66 305 310 315 320
 67 Leu Ala Phe Val Gly Thr Glu His Leu Arg Pro Leu Arg Leu Pro Pro
 68 325 330 335
 69 Thr Asn Cys Ile Ser Glu Leu Thr Pro Val Ile Ser Ser Val Tyr Thr
 70 340 345 350
 71 Gln Met Gln Pro Ile Pro Ser Arg Leu Glu Leu Pro Gly Ser Arg Glu
 72 355 360 365
 73 Ala Gly Glu Gly Pro Glu Asp Leu Gly Asp Gly Pro Leu Leu Tyr
 74 370 375 380
 75 Arg Ala Arg Gly Ser Leu Thr Asp Pro Gly Ala Ser Pro Ser Asn Gly
 76 385 390 395 400
 77 Cys Gln Asp Ser Thr Asp Thr Glu Ser Asn His Glu Asp Arg Ile Gly
 78 405 410 415
 79 Gly Val Val Ser Leu Pro Gln Gly Pro Pro Pro Gln Pro Pro Pro Thr
 80 420 425 430
 81 Ile Val Val Gly Arg His Ser Pro Ala Tyr Ala Lys Glu Asp Pro Lys
 82 435 440 445
 83 Pro Gln Glu Gly Leu Leu Arg Gly Thr Pro Gly Pro Ser Lys Glu Val
 84 450 455 460
 85 Leu Arg Val Val Gly Glu Ser Gly Glu Pro Val Lys Ala Phe Lys Cys
 86 465 470 475 480
 87 Glu His Cys Arg Ile Leu Phe Leu Asp His Val Met Phe Thr Ile His
 88 485 490 495
 89 Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys Asn Ile Cys Gly
 90 500 505 510
 91 Tyr His Ser Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Val Arg Gly
 92 515 520 525
 93 Glu His Lys Val Gly Ser Cys Arg Ile
 94 530 535
 96 <210> SEQ ID NO: 2
 97 <211> LENGTH: 532
 98 <212> TYPE: PRT
 99 <213> ORGANISM: Mus musculus
 101 <400> SEQUENCE: 2
 102 Met His Cys Thr Leu Thr Met Glu Thr Asp Ala Ile Asp Gly Tyr Ile
 103 1 5 10 15
 104 Thr Cys Asp Asn Glu Leu Ser Pro Glu Gly Glu His Ala Asn Met Ala
 105 20 25 30

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002
TIME: 13:26:43

Input Set : A:\10287-044001.txt
Output Set: N:\CRF3\08012002\J037667.raw

106 Ile Asp Leu Thr Ser Ser Thr Pro Asn Gly Gln Gln Ala Ser Pro Ser
107 35 40 45
108 His Met Thr Ser Thr Asn Ser Val Lys Leu Glu Met Gln Ser Asp Glu
109 50 55 60
110 Glu Cys Asp Arg Gln Pro Leu Ser Arg Glu Asp Glu Ile Arg Gly His
111 65 70 75 80
112 Asp Glu Gly Ser Ser Leu Glu Ala Leu Ile Glu Ser Ser Glu Val
113 85 90 95
114 Ala Asp Asn Arg Lys Val Gln Asp Leu Gln Gly Glu Arg Gly Ile Arg
115 100 105 110
116 Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly Met Val Cys Ile
117 115 120 125
118 Gly Pro Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg
119 130 135 140
120 Pro Phe His Cys Asn Gln Cys Gly Arg Ser Phe Thr Gln Lys Gly Asn
121 145 150 155 160
122 Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys Pro Phe Lys Cys
123 165 170 175
124 Pro Phe Cys Ser Tyr Ala Cys Arg Arg Arg Asp Ala Leu Thr Gly His
125 180 185 190
126 Leu Arg Thr His Ser Val Gly Lys Pro His Lys Cys Asn Tyr Cys Gly
127 195 200 205
128 Arg Ser Tyr Lys Gln Arg Thr Ser Leu Glu Glu His Lys Glu Arg Cys
129 210 215 220
130 His Asn Tyr Leu Gln Asn Val Ser Met Glu Ala Ala Gly Gln Val Met
131 225 230 235 240
132 Ser His His Val Pro Pro Met Glu Asp Cys Lys Glu Gln Glu Pro Ile
133 245 250 255
134 Met Asp Asn Asn Ile Ser Leu Val Ala Phe Glu Arg Pro Ala Val Ile
135 260 265 270
136 Glu Lys Leu Thr Ala Asn Met Gly Lys Arg Lys Ser Ser Thr Pro Gln
137 275 280 285
138 Lys Phe Val Gly Glu Lys Leu Met Arg Phe Ser Tyr Pro Asp Ile His
139 290 295 300
140 Phe His Met Asn Leu Thr Tyr Glu Lys Glu Ala Glu Leu Met Gln Ser
141 305 310 315 320
142 His Met Met Asp Gln Ala Ile Asn Asn Ala Ile Thr Tyr Leu Gly Ala
143 325 330 335
144 Glu Ala Leu His Pro Leu Met Gln His Ala Pro Ser Thr Ile Ala Glu
145 340 345 350
146 Val Ala Pro Val Ile Ser Ser Ala Tyr Ser Gln Val Tyr His Pro Asn
147 355 360 365
148 Arg Ile Glu Arg Pro Ile Ser Arg Glu Thr Ser Asp Ser His Glu Asn
149 370 375 380
150 Asn Met Asp Gly Pro Ile Ser Leu Ile Arg Pro Lys Ser Arg Pro Gln
151 385 390 395 400
152 Glu Arg Glu Ala Ser Pro Ser Asn Ser Cys Leu Asp Ser Thr Asp Ser
153 405 410 415
154 Glu Ser Ser His Asp Asp Arg Gln Ser Tyr Gln Gly Asn Pro Ala Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002

TIME: 13:26:43

Input Set : A:\10287-044001.txt

Output Set: N:\CRF3\08012002\J037667.raw

155	420	425	430
156	Asn Pro Lys Arg Lys Gln Ser Pro Ala Tyr Met Lys Glu Asp Val Lys		
157	435	440	445
158	Ala Leu Asp Ala Thr Lys Ala Pro Lys Gly Ser Leu Lys Asp Ile Tyr		
159	450	455	460
160	Lys Val Phe Asn Gly Glu Gly Gln Ile Arg Ala Phe Lys Cys Glu		
161	465	470	475
162	His Cys Arg Val Leu Phe Leu Asp His Val Met Tyr Thr Ile His Met		
163	485	490	495
164	Gly Cys His Gly Tyr Arg Asp Pro Leu Glu Cys Asn Ile Cys Gly Tyr		
165	500	505	510
166	Arg Ser Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Val Gly Gly Gln		
167	515	520	525
168	His Thr Phe His		
169	530		
171	<210> SEQ ID NO: 3		
172	<211> LENGTH: 507		
173	<212> TYPE: PRT		
174	<213> ORGANISM: Mus musculus		
176	<400> SEQUENCE: 3		
177	Met Glu Asp Ile Gln Pro Thr Val Glu Leu Lys Ser Thr Glu Glu Gln		
178	1 5 10 15		
179	Pro Leu Pro Thr Glu Ser Pro Asp Ala Leu Asn Asp Tyr Ser Leu Pro		
180	20 25 30		
181	Lys Pro His Glu Ile Glu Asn Val Asp Ser Arg Glu Ala Pro Ala Asn		
182	35 40 45		
183	Glu Asp Glu Asp Ala Gly Glu Asp Ser Met Lys Val Lys Asp Glu Tyr		
184	50 55 60		
185	Ser Asp Arg Asp Glu Asn Ile Met Lys Pro Glu Pro Met Gly Asp Ala		
186	65 70 75 80		
187	Glu Glu Ser Glu Met Pro Tyr Ser Tyr Ala Arg Glu Tyr Ser Asp Tyr		
188	85 90 95		
189	Glu Ser Ile Lys Leu Glu Arg His Val Pro Tyr Asp Asn Ser Arg Pro		
190	100 105 110		
191	Thr Ser Gly Lys Met Met Cys Asp Val Cys Gly Leu Ser Cys Ile Ser		
192	115 120 125		
193	Phe Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg Pro		
194	130 135 140		
195	Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn Leu		
196	145 150 155 160		
197	Leu Arg His Ile Lys Leu His Thr Gly Glu Lys Pro Phe Lys Cys His		
198	165 170 175		
199	Leu Cys Asn Tyr Ala Cys Gln Arg Arg Asp Ala Leu Thr Gly His Leu		
200	180 185 190		
201	Arg Thr His Ser Val Glu Lys Pro Tyr Lys Cys Glu Phe Cys Gly Arg		
202	195 200 205		
203	Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys Arg		
204	210 215 220		
205	Ala Phe Leu Gln Asn Pro Asp Leu Gly Asp Ala Ala Ser Val Glu Ala		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002
TIME: 13:26:43

Input Set : A:\10287-044001.txt
Output Set: N:\CRF3\08012002\J037667.raw

206	225	230	235	240
207	Arg His Ile Lys Ala Glu Met Gly Ser Glu Arg Ala Leu Val Leu Asp			
208	245	250	255	
209	Arg Leu Ala Ser Asn Val Ala Lys Arg Lys Ser Ser Met Pro Gln Lys			
210	260	265	270	
211	Phe Ile Gly Glu Lys Arg His Cys Phe Asp Ala Asn Tyr Asn Pro Gly			
212	275	280	285	
213	Tyr Met Tyr Glu Lys Glu Asn Glu Met Met Gln Thr Arg Met Met Asp			
214	290	295	300	
215	Gln Ala Ile Asn Asn Ala Ile Ser Tyr Leu Gly Ala Glu Ala Phe Arg			
216	305	310	315	320
217	Pro Leu Val Gln Thr Pro Pro Ala Pro Thr Ser Glu Met Val Pro Val			
218	325	330	335	
219	Ile Ser Ser Val Tyr Pro Ile Ala Leu Thr Arg Ala Asp Met Pro Met			
220	340	345	350	
221	Gly Ala Pro Gln Glu Met Glu Lys Lys Arg Ile Leu Leu Pro Glu Lys			
222	355	360	365	
223	Ile Leu Pro Ser Glu Arg Gly Leu Ser Pro Asn Asn Ser Ala Gln Asp			
224	370	375	380	
225	Ser Thr Asp Thr Asp Ser Asn His Glu Asp Arg Gln His Leu Tyr Gln			
226	385	390	395	400
227	Gln Ser His Val Val Leu Pro Gln Ala Arg Asn Gly Met Pro Leu Leu			
228	405	410	415	
229	Lys Glu Val Pro Arg Ser Phe Glu Leu Leu Lys Pro Pro Pro Ile Cys			
230	420	425	430	
231	Leu Arg Asp Ser Ile Lys Val Ile Asn Lys Glu Gly Glu Val Met Asp			
232	435	440	445	
233	Val Phe Arg Cys Asp His Cys His Val Leu Phe Leu Asp Tyr Val Met			
234	450	455	460	
235	Phe Thr Ile His Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys			
236	465	470	475	480
237	Asn Met Cys Gly Tyr Arg Ser His Asp Arg Tyr Glu Phe Ser Ser His			
238	485	490	495	
239	Ile Ala Arg Gly Glu His Arg Ala Met Leu Lys			
240	500	505		
242	<210> SEQ ID NO: 4			
243	<211> LENGTH: 515			
244	<212> TYPE: PRT			
245	<213> ORGANISM: Mus musculus			
247	<400> SEQUENCE: 4			
248	Met Asp Val Asp Glu Gly Gln Asp Met Ser Gln Val Ser Gly Lys Glu			
249	1	5	10	15
250	Ser Pro Pro Val Ser Asp Thr Pro Asp Glu Gly Asp Glu Pro Met Pro			
251	20	25	30	
252	Val Pro Glu Asp Leu Ser Thr Thr Ser Gly Ala Gln Gln Asn Ser Lys			
253	35	40	45	
254	Ser Asp Arg Gly Met Ala Ser Asn Val Lys Val Glu Thr Gln Ser Asp			
255	50	55	60	
256	Glu Glu Asn Gly Arg Ala Cys Glu Met Asn Gly Glu Glu Cys Ala Glu			

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002
TIME: 13:26:44

Input Set : A:\10287-044001.txt
Output Set: N:\CRF3\08012002\J037667.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 15,18,21

Seq#:7; N Pos. 6,15,18

Seq#:11; N Pos. 7

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/037,667

DATE: 08/01/2002
TIME: 13:26:44

Input Set : A:\10287-044001.txt
Output Set: N:\CRF3\08012002\J037667.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:394 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:398 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:409 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:413 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:457 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:461 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0